

PROCEEDINGS
OF THE
ROYAL SOCIETY OF EDINBURGH.
SESSION 1907-8.

Part IV.]

VOL. XXVIII.

[Pp. 257-336.]

CONTENTS.

NO.		PAGE
XVI.	The Problem of a Spherical Gaseous Nebula. By LORD KELVIN,	259
	<i>(Issued separately May 6, 1908.)</i>	
XVII.	The Theory of Skew Determinants in the Historical Order of Development up to 1865. By THOMAS MUIR, LL.D., .	303
	<i>(Issued separately May 13, 1908.)</i>	
XVIII.	Sunset and Twilight Curves, and Related Phenomena. By D. M. Y. SOMMERVILLE. <i>(Communicated by Professor DYSON.)</i> With Three Plates,	311
	<i>(Issued separately May 14, 1908.)</i>	

EDINBURGH :
PUBLISHED BY ROBERT GRANT & SON, 107 PRINCES STREET, AND
WILLIAMS & NORGATE, 14 HENRIETTA STREET, COVENT GARDEN, LONDON.

MDCCCXVIII.

Price Four Shillings and Sixpence.

REGULATIONS REGARDING THE PUBLICATION OF PAPERS IN THE PROCEEDINGS AND TRANSACTIONS OF THE SOCIETY.

THE Council beg to direct the attention of authors of communications to the Society to the following Regulations, which have been drawn up in order to accelerate the publication of the Proceedings and Transactions, and to utilise as widely and as fairly as possible the funds which the Society devotes to the publication of Scientific and Literary Researches.

1. MANUSCRIPT OF PAPERS.—As soon as any paper has been passed for publication, either in its original or in any altered form, and has been made ready for publication by the author, it is sent to the printer, whether it has been read or not.

The 'copy' should be written on large sheets of paper, on one side only, and the pages should be clearly numbered. The MS. must be easily legible, preferably typewritten, and must be absolutely in its final form for printing; so that corrections in proof shall be as few as possible, and shall not cause overrunning in the lines or pages of the proof. All tables of contents, references to plates, or illustrations in the text, etc., must be in their proper places, with the page numbers left blank, and spaces must be indicated for the insertion of illustrations that are to appear in the text.

2. ILLUSTRATIONS.—All illustrations must be drawn in a form immediately suitable for reproduction; and such illustrations as can be reproduced by photographic processes should, so far as possible, be preferred. Drawings to be reproduced as line blocks should be made with Indian ink (deadened with yellow if of bluish tone), preferably on fine white bristol board, free from folds or creases; smooth, clean lines, or sharp dots, but no washes or colours, should be used. If the drawings are done on a large scale, to be afterwards reduced by photography, any lettering or other legend must be on a corresponding scale.

If an author finds it inconvenient to furnish such drawings, the Society will have the figures re-drawn at his expense; but this will cause delay.

When the illustrations are to form plates, a scheme for the arrangement of the figures (in quarto plates for the Transactions, in octavo for the Proceedings) must be given, and numbering and lettering indicated.

3. PROOFS.—In general, a first proof and a revise of each paper will be sent to the author, whose address should be indicated on the MS. If further proofs are required, owing to corrections or alterations for which

[Continued on page iii of Cover.]

the printer is not responsible, the expense of such proofs and corrections will be charged against the author.

All proofs must, if possible, be returned within one week, addressed to *The Secretary, Royal Society, Mound, Edinburgh*, and *not to the printer*. To prevent delay, authors residing abroad should appoint some one residing in this country to correct their proofs.

4. ADDITIONS TO A PAPER after it has been finally handed in for publication, if accepted by the Council, will be treated and dated as separate communications, and may, or may not, be printed immediately after the original paper.

5. BRIEF ABSTRACTS OF TRANSACTIONS PAPERS will be published in the Proceedings, provided they are sent along with the original paper.

6. SEPARATE ISSUE OF REPRINTS; AUTHOR'S FREE AND ADDITIONAL COPIES.—As soon as the final revise of a Transactions paper has been returned, or as soon as the sheet in which the last part of a Proceedings paper appears is ready for press, a certain number of separate copies or reprints, in covers bearing the title of the paper and the name of the author, are printed off and placed on sale. The date of such separate publication will be printed on each paper.

The author receives fifty of these reprints free, and may have any reasonable number of additional copies at a fixed scale of prices which will be furnished by the printer, who will charge him with the cost. To prevent disappointment, especially if the paper contains plates, the author should, immediately after receiving his first proof, notify *to the printer* the number of additional copies required.

7. INDEX SLIPS.—In order to facilitate the compilation of Subject Indices, and to secure that due attention to the important points in a paper shall be given in General Catalogues of Scientific Literature and in Abstracts by Periodicals, every author is requested to return to the Secretary, along with his final proof, a brief index (on the model given below), of the points in it which he considers new or important. These indices will be edited by the Secretary, and incorporated in Separate Index Slips, to be issued with each part of the Proceedings and Transactions.

MODEL INDEX.

Schäfer, E. A.—On the Existence within the Liver Cells of Channels which can be directly injected from the Blood-vessels. Proc. Roy. Soc. Edin., vol. 1902, pp. .

Cells, Liver,—Intra-cellular Canaliculi in.

E. A. Schäfer. Proc. Roy. Soc. Edin., vol. , 1902, pp. .

Liver,—Injection within Cells of.

E. A. Schäfer. Proc. Roy. Soc. Edin., vol. , 1902, pp. .

The Papers published in this Part of the PROCEEDINGS may be had separately, on application to the Publishers, at the following prices:—

No. XVI.,	.	.	.	Price 2s. 6d.
No. XVII.,	.	.	.	„ 6d.
No. XVIII.,	.	.	.	„ 1s. 6d.